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information. As shown in FIG. 3 the adapters 84 run on the various services 86, network nodes 88 and the monitor interface 90 of the presently preferred embodiment of the present invention. These adapters 84 publish and subscribe to by way of the information bus 92 that has its hub at the broker 82.--

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### Claims

Please amend the claims as follows:

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1. (Unamended)      A method for conveying data communications network management information to an umbrella management system, the method comprising:
- generating network management information;
  - publishing said network management information as network management information events on an information bus;
  - subscribing to said network management information events at a monitor interface in communication with said information bus;
  - receiving said network management information events at said interface;
  - converting said network management information events into umbrella management system information useable by said umbrella management system; and
  - communicating said umbrella management system information to said umbrella management system.
2. (Unamended)      A method in accordance with claim 1, further comprising:
- filtering said network management information events to communicate selected information contained in said events.

3. (Unamended) A method in accordance with claim 1, further comprising:  
translating said umbrella management system information into an  
umbrella management system input protocol.
4. (Unamended) A method in accordance with claim 3, wherein said input protocol  
is Simple Network Management Protocol (SNMP) traps.
5. (Unamended) A method in accordance with claim 3, further comprising:  
communicating the translated umbrella management system information to a  
database within the umbrella management system.
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6. (Unamended) A method in accordance with claim 3, further comprising:  
communicating the translated umbrella management system information  
to a network management system application within the umbrella management system.
7. (Unamended) A method in accordance with claim 6, further comprising:  
communicating the translated umbrella management system information  
to a Management Information Base (MIB) associated with the network management  
system application.
8. (Unamended) A method in accordance with claim 1, wherein subscribing  
includes:

subscribing to events related to the starting of an instance of a service component within the data communications network.

9. (Unamended) A method in accordance with claim 1, wherein subscribing includes:

subscribing to events related to the stopping of an instance of a service component within the data communications network.

10. (Unamended) A method in accordance with claim 1, wherein subscribing includes:

subscribing to events related to the configuration of a service within the data communications network.

11. (Unamended) A method in accordance with claim 1, wherein subscribing includes:

subscribing to events related to the configuration of the monitor interface.

12. (Unamended) A method in accordance with claim 1, wherein subscribing includes:

subscribing to events related to an error occurring at a service within the data communications network.

13. (Unamended) A method in accordance with claim 1, wherein subscribing includes:

subscribing to events responsive to two or more conflicting signals being received by a service within the data communications network, said conflicting signals created by two or more network control consoles with a specified period of time.

14. (Unamended) A method in accordance with claim 1, further comprising:

publishing events at the monitor interface on to the information bus.

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15. (Unamended) A method in accordance with claim 14, wherein publishing events at the monitor interface includes:

publishing events at the monitor interface in response to events received.

16. (Unamended) A method in accordance with claim 14, wherein publishing events at the monitor interface includes:

publishing events at the monitor interface containing information conveyed from the umbrella management system.

17. (Unamended) A method for managing a data communications network comprising:

starting a network management application program;

starting an access database adapter in communication with said network management application program;

starting a master daemon in communication with said access database adapter;

starting a control adapter with said master daemon;

monitoring said control adapter with said master daemon until said control adapter stops;

restarting said control adapter with said master daemon should said control adapter ever stop;

starting at least one service with said control adapter, said service including a service adapter in communication with said control adapter and said access database adapter; and

starting a monitor interface adapter, said monitor interface adapter in communication with said control adapter, said service adapter, said access database adapter and an umbrella management system.

18. (Unamended) A method in accordance with claim 17, further comprising:
- publishing at said control adapter, said service adapter and said access database adapter network management information events on to an information bus;
- subscribing at said monitor interface adapter to said network management information events;
- receiving said network management information events at said monitor interface adapter;
- converting said network management information events into umbrella management system information useable by said umbrella management system; and

communicating said umbrella management system information to said umbrella management system.

19. (Unamended) A method in accordance with claim 18 further comprising:  
publishing events at said monitor interface adapter on to said information bus.

20. (Unamended) A monitor interface in a data communications network, said monitor interface in communication with an information bus and an umbrella management system, said monitor interface comprising:  
an adapter that subscribes to and captures network management events off of said information bus;  
a converter in communication with said adapter that formats said events into umbrella management system information; and  
a forwarder in communication with said converter that conveys said umbrella management system information to said umbrella management system.

21. (Unamended) A monitor interface in accordance with claim 20, further comprising:  
a filter in communication with said adapter, said filter selecting certain information from certain network management events.

22. (Unamended) A monitor interface in accordance with claim 20, further comprising:

a publisher in communication with said adapter, said publisher transmitting events across said information bus.

23. (Unamended) A data communications network comprising:

a first processor including:

a network management application,

an access database adapter in communication with said network

management application and an information bus, said access database adapter publishing events onto the information bus, and

a database in communication with said network management application and said access database adapter;

a second processor including:

a control adapter in communication with said information bus, said control adapter publishing events onto the information bus,

a service adapter in communication with said information bus and said control adapter, said service adapter started by said control adapter service, said service adapter publishing events onto the information bus, and

at least one service running on said second processor, said service in communication with said service adapter; and

a monitor interface including:

a monitor interface adapter in communication with said information bus, said monitor interface adapter subscribing to and capturing events published by said access database adapter, said control adapter and said service adapter, a converter in communication with said monitor interface adapter, said converter converting said events into umbrella management system information, and a forwarder in communication with said converter, said forwarder conveying said network management information to an umbrella management system.

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24. (Unamended) A monitor interface in a data communications network, said monitor interface in communication with an information bus and an umbrella management systems, said monitor interface comprising:

a means for subscribing to network management information events published on said information bus;  
a means for receiving said network management information events;  
a means for converting said network management information events into umbrella management system information useable by said umbrella management system;  
and  
a means for communicating said umbrella management system information to said umbrella management system.

25. (Unamended) A monitor interface in accordance with claim 24, further comprising:

a means for filtering said network management information events



to communicate selected information in said events to said umbrella management system.

26. (Unamended) A monitor interface in accordance with claim 24, further comprising:

a means for publishing events on to said information bus.

27. (Unamended) A program storage device readable by a machine tangibly embodying a program of instructions executable by the machine to perform a method for integrating data communications network management information into an umbrella management system, the method comprising:

obtaining network management information;

publishing said network management information as network management information events on an information bus;

subscribing to said network management information events at a monitor interface in communication with said information bus;

receiving said network management information events at said interface; converting said network management information events into umbrella management system information useable by said umbrella management system; and

communicating said umbrella management system information to said umbrella management system.

28. (Unamended) A program storage device readable by a machine tangibly embodying a program of instructions executable by the machine to perform a method for managing a data communications network comprising:

starting a network management application program;

starting an access database adapter in communication with said network management application program;

starting a master daemon in communication with said access database adapter;

starting a control adapter with said master daemon;

monitoring said control adapter with said master daemon until said control adapter stops;

restarting said control adapter with said master daemon should said control adapter ever stop;

starting at least one service with said control adapter, said service including a service adapter in communication with said control adapter and said access database adapter; and

starting a monitor interface adapter, said monitor interface in communication with said control adapter, said service adapter, said access database adapter and an umbrella management system.

29. (Unamended) A method in accordance with claim 17, wherein said master daemon is defined as a parent process and said control adapter is defined as a child process of the master daemon.

30. (Once Amended) A method in accordance with claim 29, wherein said master daemon comprises an application simpler than an application in said control adapter.

Please add claims 31-38 as follows:

31. (New) A method for conveying data communications network management information to an umbrella management system, the method comprising:

subscribing an adapter to an information bus to capture network management events;

C<sup>2</sup> formatting said events into an umbrella management system information by a converter in communication with said adapter;

conveying said umbrella system information to said umbrella management system by a forwarder in communication with said converter.

32. (New) The method of claim 29 further comprising:

selecting certain information from certain network management events, said filter in communication with said adapter.

33. (New) The method of claim 29 further comprising:

transmitting events across said information bus by a publisher in communication with said adapter.

34. (New) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method for conveying data communications network management information to an umbrella management system, said method comprising:

subscribing an adapter to an information bus to capture network management events;

formatting said events into an umbrella management system information by a converter in communication with said adapter;

conveying said umbrella system information to said umbrella management system by a forwarder in communication with said converter.

35. (New) A method for conveying data communications network management information to an umbrella management system, said method comprising:

subscribing to network management information events published on said information bus;

receiving said network management information events;

converting said network management information events into umbrella management system information useable by said umbrella management system; and

communicating said umbrella management system information to said umbrella management system.

36. (New) The method of claim 33 further comprising: